	UTILITY OR DESIGN PATENT APPLICATION		First Named inve	entor	Zhao, Lily	
			COMPLETE IF KNOWN			
(37 CFR 1.63)		Application Num	ber		***************************************	
S 1	Submitted with Submitted after Initial initial Filing OR Filing (surcharge	Filing Date				
		Filing (surcharge (37 CFR 1.16(e))	Group Art Unit		***************************************	***************************************
		required)	Examiner Name			
***********	***************************************		~ ************************************)0000000000000000000000000000000000000		
As a	s below named invent	tor, I hereby declare that:			***************************************	
	. ,	iddress, and citizenship are		-		
bell inver	ieve I am the original, I ntor (if plural names an invention entitled:	first and sole inventor (if or re listed below) of the subje	ily one name is listed act matter which is cla	below) or ar simed and fo	n original, first and or which a patent is	joint sought on
Method and Apparatus for Increasing Routing Density for a Circuit Board						
		/Title	of the Invention)	***************************************	#1,000000 #10000000000000000000000000000	
the :	specification of which:	f claim	of the anomony			
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["]	OR was filed on (MM/DD/Y	tip hatini i se	ales Application Number	or DAT Injur	netional	
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l her clain	eby state that I have rense as amended specific	eviewed and understand th cally referred to above	e contents of the abo	we identified	I specification, inclu	iding the
l ack inclu of the	inowledge the duty to d iding for continuation-in e prior application and	disclose information which n-part applications, materia the national or PCT intern	is material to palental il information which be ational filing date of th	bility as defir ecame avail re continuati	ned in 37 CFR 1.56 able between the fi ion-in-part applicati	t ling date on.
pater design by cl	nt, inventor's or plant bi gnated at least one cou hecking the box any for	ity benefits under 35 U.S.C reeder's rights certificate(s retry other than the United reign application(s) for pate on having a filing date before	i), or 365(a) of any PC States of America, lis ent. inventor's or plant	CT internatio sted below a t breeder's ri	onal application which and have also identificate(s).	ch ified below, or of anv
Арр	Prior Foreign dication Numbers(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claims	Certified Copy ed Yes	Attached? No
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Арр	w s	Country		Not Claime	ed Yes	No
Арр	w s	Country		Not Claims	ed Yes	No

Attorney Docket Number US 040110

DECLARATION FOR

From-

Dec-15-04

DECLARATION --- Utilitiy or Design Patent Application

Direct all correspondence to: 🔀 Custome	r Number 24	\$738 and/or 🗍 Con	respondence address below
PHILIPS ELECTRONICS NORTH A Intellectual Property & Stand		PRPORATION	
Audress 1109 McKay Drive, M/S-41SJ			
_{chy} San Jose	Stale	California	zip 95131
Country U.S.A	tisphons	(408) 474-9073	FAX (408) 474-9082
hereby declare that all statements made herein of it polisif are believed to be true; and further that these s like so made are punishable by fine or imprisonment, expandize the validity of the application or any patent	tatements wen or both, under	's made with the knowledge that t 16 U.S.C. 1001 and that such t	the first of the management of the first the state of the
NAME OF SOLE OR FIRST INVENTOR:		A patition has been filed for t	ltis unalgned inventor
Given Namo (first & middle [if any])	÷**	Pamily Name ZHAO	
inventor's Signature			Date 12/15/04
San Disgo	CA State	U.S.A. Country	China Chizanship
17883 Sun Walk Ct			
San Diego city	CA State	92127 Zip	U.S.A.
NAME OF SECOND INVENTOR:	T.	A petition has been filed for t	hiq unsigned inventor
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inventor's Signature			Date
San Jose Residence: City	CA State	U.S.A.	U.S.A
2922 Lovewood Way Mailing Address			
San Jose _{City}	CA State	95148 zp	U.S.A. Country
NAME OF THIRD INVENTOR:		A petition has been filed for If	
Civen Nams (first & middle (if eny))	<u> </u>	Family Name or Surname	- Talenda Commission of the Co
inventor's Signature			Dats
Residence: City	Stato	Country	Crizenship
Malling Address			
City	State	ZIP	Country
Additional inventors are being named on the	£ 514	ppiemental Additional Invantor(i	
מה אמנית מני			

DECLARATION ---- Utility or Design Patent Application

Direct all	correspondence to: X Custom	er Number 24	4738 and/or 🗌 co	rrespondence address below
Name	PHILIPS ELECTRONICS NORTH Intellectual Property & Stan-		ORPORATION	
Address	1109 McKay Drive, M/S-41SJ			
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belief are b ike so mad	ectare that all statements made herein of selleved to be true; and further that these de are punishable by fine or imprisonmen the validity of the application or any pater	: slatements were it, or both, under	e made with the knowledge that r 18 U.S.C. 1001 and that such	it willful false statements and the
NAME	OF SOLE OR FIRST INVENTOR	R: 🗍	A petition has been filed for	this unsigned inventor
Given Nar (first & mi	me LILY iddle (if any))		Family Name ZH/ or Surname	AO
inventor's Signature		······································		Date
Residence	San Diego e: city	CA State	U.S.A. Country	China Citizenship
Mailing As	17883 Sun Walk Ct	,		
City	San Diego	CA State	92127 zip	U.S.A. Country
NAME	OF SECOND INVENTOR:		A petition has been filed for	this unsigned inventor
Given Nar (first & mi	ne MICHAEL iddle [if any])	ALL SECTION AND ASSESSMENT OF THE SECTION AS	Family Name LOC or Surname)
inventor's Signature	1 5 MH 1 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1	<u></u>		11/30/04 Date
Residence	San Jose	CA State	U.S.A.	U.S.A Citizenshio
Mailing Ac	2922 Lovewood Way		A CONTRACTOR OF THE PARTY OF TH) M TOWN CONTROL
City	San Jose	CA State	95148 zip	U.S.A.
***************************************	OF THIRD INVENTOR:		A pelition has been filed for	
Given Nan (first & mi	ne ddle [if any]}		Family Name or Surname	
inventor's Signature		3		Date
Residence	s: City	State	Country	Cilizenship
Mailing Ad	idress			
City	~~~	State	ZIP	Country
□ Add	itional inventors are being named on ti	he su	pplemental Additional Inventor	(s) sheet(s) attached hereto.

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (N	ames should be indicated as they appear in the request);
ZHAO, Lily LOO, Michael	
hereby appoint(s) the following pers	on as: agent Scommon representative
	te followed by given name: for a legal entity, full official designation. The address must include and name of country)
Koninklijke Philips El- Groenewoudseweg 1	ectronics N.V. , 5621 BA Eindhoven, NL
to represent the undersigned before	
in connection with the international	application identified below:
Title of the invention:	METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD
Applicant's file reference:	US 040110P
International application nu	mber (if already available):
filed with the following Officeundersigned	IB as Receiving Office and to make or receive payments on behalf of the
the person	here are several applicants, each of them must sign; next to each signature, indicate the name of n signing and the capacity in which the person signs, if such capacity is not obvious from the request or this power):
Signature: AAY Name: Lity/Zhao	
Signature: / Name: Michael Loo	
Signature:Name:	
Signature: Name:	
Signature:Name:	

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):
ZHAO, Líly LOO, Michael
hereby appoint(s) the following person as: 🔲 agent 🛛 common representative
Name and address (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)
Koninklijke Philips Electronics N.V. Groenewoudseweg 1, 5621 BA Eindhoven, NL
to represent the undersigned before X all the competent International Authorities the International Searching Authority only the International Preliminary Examining Authority only
in connection with the international application identified below:
Title of the invention: METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD
Applicant's file reference: US 040110P
International application number (if already available):
filed with the following Office IB as Receiving Office and to make or receive payments on behalf of the undersigned
Signature of applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):
Signature: Name: Lily Zhaq
Signature:
Signature:
Signature:Name;
Signature: Name:

SOLE/JOINT ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I, as a below-named Assignor, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to KONINKLIJKE PHILIPS ELECTRONICS N.V. having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

- (1) my/our invention relating to "METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD" for which a U.S. provisional patent application was filed in the United States Patent and Trademark Office on <u>February 4, 2004</u>, having a Serial Number <u>60/541,110</u>.
- (2) the foregoing application and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, reexaminations, reissues, and extensions thereof, and
- (3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

I authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to Koninklijke Philips Electronics N.V., for its sole use, and that of its successors, assigns, and legal representatives.

I will provide my cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutional actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

I certify that I have the full right to convey the above rights.

Date	Lily Zhoo	, Assignor
1/30/01/ Date	Lily Zhao	, Assignor
Date	Michael Loo	, Assignor

SOLE/JOINT ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I, as a below-named Assignor, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to KONINKLIKE PHILIPS ELECTRONICS N.V. having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

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- (3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

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n War		, Assignor
Date	Lily Zhu6/	, Assignor
Date	Michael Loo	
Date		, Assignor